

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/558,155

Source: IFWP

Date Processed by STIC: 3/15/07

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)**
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

19558/155

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
- 4 Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If **intentional**, please insert the following lines for **each** skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
 In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> ~~Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.~~
 ~~Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.~~
 ~~(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)~~
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



IFWP

RAW SEQUENCE LISTING

DATE: 03/15/2007

PATENT APPLICATION: US/10/558,155

TIME: 11:30:32

Input Set : A:\2007-01-03 1254-0299PUS1.txt

Output Set: N:\CRF4\03152007\J558155.raw

3 <110> APPLICANT: WAKITA, Takaji
 4 KATO, Takanobu
 5 DATE, Tomoko
 7 <120> TITLE OF INVENTION: A NUCLEIC ACID CONSTRUCT CONTAINING A NUCLEIC ACID DERIVED
 8 FROM THE GENOME OF HEPATITIS C VIRUS (HCV) OF GENOTYPE 2a,
 9 AND A CELL HAVING SUCH NUCLEIC ACID CONSTRUCT INTRODUCED THEREIN
 11 <130> FILE REFERENCE: 1254-0299PUS1
 13 <140> CURRENT APPLICATION NUMBER: US 10/558,155
 14 <141> CURRENT FILING DATE: 2005-11-23
 16 <150> PRIOR APPLICATION NUMBER: PCT/JP2003/015038
 17 <151> PRIOR FILING DATE: 2003-11-25
 19 <150> PRIOR APPLICATION NUMBER: JP 2003-148242
 20 <151> PRIOR FILING DATE: 2003-05-26
 22 <150> PRIOR APPLICATION NUMBER: JP 2003-329115
 23 <151> PRIOR FILING DATE: 2003-09-19
 25 <160> NUMBER OF SEQ ID NOS: 41
 27 <170> SOFTWARE: PatentIn Ver. 2.1
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 31 <212> TYPE: RNA
 32 <213> ORGANISM: Artificial Sequence
 34 <220> FEATURE:
 35 <223> OTHER INFORMATION: Description of Artificial Sequence: replicon
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 40 ccccuucccg ggagagccau aguggucugc ggaaccggug aguacaccgg aaugccggg 180
 41 aagacugggu ccuucucugg auaaaccac ucuaugccc gccauuugg cgugccccc 240
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 56 ugcugaagag cuuggcggcg aaugggcuga ccgcuuccuc gugcuuucg guaucgccgc 1140

Does Not Comply
 Corrected Diskette Needed
 (Pg. 1, 4)

PLS explain source
 of genetic material.

Invalid
 response

PLS see
 item #11
 on
 error
 Summary
 Sheet.

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Input Set : A:\2007-01-03 1254-0299PUS1.txt

Output Set: N:\CRF4\03152007\J558155.raw

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103 uugcugcagc agggccucua gcaggcccag gacauacaac ccgcuaugca ggcuucaugg 3960
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DATE: 03/15/2007

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TIME: 11:30:32

Input Set : A:\2007-01-03 1254-0299PUS1.txt

Output Set: N:\CRF4\03152007\J558155.raw

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175 <211> LENGTH: 8024

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179 <220> FEATURE:

180 <223> OTHER INFORMATION: Description of Artificial Sequence: replicon

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Same error

See item #11 on error summary sheet

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/558,155

DATE: 03/15/2007

TIME: 11:30:32

Input Set : A:\2007-01-03 1254-0299PUS1.txt

Output Set: N:\CRF4\03152007\J558155.raw

```

208 gcggccaaaa gccacgugua uaagauacac cugcaaaggc ggcacaaccc cagugccacg 1560
209 uugugaguug gauaguugug gaaagaguca aauggcucuc cucaagcgua uucaacaagg 1620
210 ggcugaagga ugcccagaag guaccccauu guaugggauc ugaucugggg ccucggugca 1680
211 caugcuuuac auguguuuag ucgagguuaa aaaaacgucu agggcccccg aaccacgggg 1740
212 acgugguuuu ccuuugaaaa acacgauaau accauggccc ccaucaccgc uuacgcccag 1800
213 cagacacgag gucucuuggg cucuauagug gugagcauga cggggcguga caagacagaa 1860
214 caggccgggg agguccaagu ccuguccaca gucacucagu ccuuccucgg aacauccauu 1920
215 ucgggggucu uauggacugu uuaccacgga gcuggcaaca agacacuagc cggcucgcgg 1980
216 ggcccgguca cgcagaugua cucgagcgcc gagggggacu uggucgggug gccagcccu 2040
217 ccugggacca aaucuuugga gccguguacg uguggagcgg ucgaccugua uuuggucacg 2100
218 cggaacgcug augucauccc ggcucgaaga cgcggggaca agcggggagc gcugcucucc 2160
219 ccgagacccc uuucgaccuu gaaggggucc ucggggggac cugugcuuug ccuagggggc 2220
220 cacgcugucg gaauucuccg ggcagcugug ugcucucggg guguggcuua guccauagau 2280
221 uucauccccg uagagacgcu cgacaucguc acgcgguccu ccaccuuuag ugacaacagc 2340
222 acaccaccag cugugcccca gaccuauacg gugggguauc ugcacgcccc cacuggcagu 2400
223 ggaaaaagca ccaaggucgc cgucgcguac gccgcccagg gguauaaagu gcuggugcuc 2460
224 aaucccucgg uggcugccac ccugggauuu ggggcguacu uguccaaggc acauggcauc 2520
225 aaccccaaca uaaggacug agucagaacc gugacgaccg gggagcccau uacauacucc 2580
226 acguauggua aauccucgc cgaugggggc ugcgcaggcg gcgccuanga caucaucaua 2640
227 ugcaugaau gccacucugu ggaugcuacc acuaucucg gcaucgggac aguccuugac 2700
228 caagcagaga cagccggggu caggcuacu guacuggcca cggccacgcc ccccgguugc 2760
229 gugacaaccc ccaucccaa uauagaggag guagccucg gacaggaggg ugagaucucc 2820
230 uucuauggga gggcguuucc ccugucuac aucaaggag ggaggcacuu gauuuucugc 2880
231 cacucaaaaga aaaaguguga cgagcucgca acggcccuuc ggggcauggg cuugaacgcu 2940
232 guggcauuu acagaggguu ggacgucucc auauacca cucaaggaga uguggugguc 3000
233 guugccaccg acgccucau gacgggguau acuggagacu uugacuccgu gacgacugc 3060
234 aacguagcgg ucaccaggc cguagacuuc agccuggacc ccaccuucac uauaaccaca 3120
235 cagacugucc cgcaagacgc ugucucacgu agucagcgcc gaggggcgac gggugagga 3180
236 agacugggca uuauagguu uguuuccacu ggugagcgag ccucaggaa uuuugacagu 3240
237 guaguacucu gugagugcu cgacgcagga gcugcuuggu augagcucuc accaguggag 3300
238 acgaccguca ggcucagggc guuuucaa acgcccuggcu ugccugugug ccaggaccac 3360
239 cuugaguuuu gggaggcagu uuucaccggc cucacacaca uagacgcuca uuuccuuucc 3420
240 cagacaaagc agucggggga aaauuucgca uacuauagu ccuaucaggc cacagugugc 3480
241 gccagggcca aagcgcccc cccgucugg gacgucaugu ggaagugcuu gacucgacuc 3540
242 aagcccacgc uuguggggcc uacaccucuc cuguaccguu ugggcucugu uaccaacgag 3600
243 gucacccuua cacacccg uacaaaauac aucgccacu gcaugcaagc ugaccucgag 3660
244 gucaugacca gcacgugggu ccuggcuggg ggagucuuag cagccgucgc cgcguauugc 3720
245 uuagcgaccg gguguguuuc caucauuggc cguuuacaca ucaaccagcg agcugucguc 3780
246 gcuccggaca aggagguccu cuaugaggcu uuugaugaga uggaggaaug ugccuccaga 3840
247 gcggcucucc uugaagaggg gcagcggaug gccgagaugc ugaaguccaa gaucacaggc 3900
248 uuauugcagc aagccucuaa acaggcccag gacauacaac ccgcugugca agcuucgugg 3960
249 cccaagaugg agcaauucug ggccaaacau auguggaacu ucauaagcgg cauucaguac 4020
250 cucgcaggac ugucaacacu gccagggaac ccugcugugg cuuccaugau ggcauucagc 4080
251 gccgcccua ccaguccguu gucaacuagc accaccaucc uucuuacau ucuggggggc 4140
252 uggcuggcg cuccaaauug gccacccg cgggccacug gcuuuguugu caguggccug 4200
253 gugggagcug cuguuggcag cauaggcuug gguaaagugc ugguggacau ccuggcaggg 4260
254 uauggugcgg gcauuucggg ggcccucguc gcguuuuaga ucaugucugc cgagaagccc 4320
255 uccauggagg augucauca cuugcugccu gggauucugu cuccaggugc ucugguggug 4380
256 ggagucaucu gcgcggccau ucugcgccgc caugugggac cgggggaagg cgcgguccaa 4440

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/558,155

DATE: 03/15/2007

TIME: 11:30:33

Input Set : A:\2007-01-03 1254-0299PUS1.txt

Output Set: N:\CRF4\03152007\J558155.raw